

What is Claimed Is:

1. An Internet learning system, comprising:

terminals (1,2) for allowing learning-related persons including a learner to access a corresponding educational service site through the Internet;

5 a system operating server (3) having a connection section (4) and an authentication section (5);

a learning information management server (6) having a learning information management program (6-1) for selectively storing learning information generated from a learning procedure in a learning information database (6-2) and extracting learning information necessary for the learning procedure from the learning information database (6-2), and the learning information database (6-2) in which personal
10 learning information depots containing items related to a learner's history learned in the past and the learner's learning ability are databased;

a learning progress server (7) having a conceptual contents configuration program (7-2), a problem configuration program (7-3), a test scoring program (7-4), a problem explanation file configuration program (7-5), and a learning plan configuration program (7-1) for managing other programs within the
15 learning progress server (7); and

a learning database server (8) including a conceptual contents database (8-1) to which respective conceptual contents belong and in which each of the concepts of a learning range is subdivided by the minimum unit so that they can be easily reconfigured, a problem database (8-2) having problem groups in which two or more degrees of difficulty are divided every conceptual content of the conceptual contents
20 database (8-1) and having at least one problem every problem group, and a problem explanation file database (8-3) for explaining each of the problems of the problem database (8-2).

2. The Internet learning system as claimed in claim 1, wherein the learning database server (8) further comprises a learning dictionary database (8-4) and/or the learning information management server (6) further comprises a learning note management program (6-1) and/or a learning ability measurement
25 program (6-3).

3. The Internet learning system as claimed in claim 1 or 2, wherein the conceptual contents data of the conceptual contents database (8-1) is a packet structure having a header wherein a classification code, a medium classification code of over 1 step, a code divided by the minimum unit and a conceptual contents file code are allocated with given bits.

30 4. The Internet learning system as claimed in claim 3, wherein the degree of difficulty code of the conceptual contents data is allocated with given bits to form the packet structure constituting the header.

5. The Internet learning system as claimed in claim 1 or 2, wherein the problem data of the problem database (8-2) has the packet structure having a header in which a classification code, a medium classification code of over 1 step, a code divided by the minimum unit, a problem-native code and the

degree of difficulty code are allocated with given-bits.

6. The Internet learning system as claimed in claim 1 or 2, wherein problem explanation file data of the problem explanation file database (8-3) has a packet structure having a header in which a classification code, a medium classification code of over 1 step, a code divided by the minimum unit and a problem explanation file native code are allocated with given bits.

7. The Internet learning system as claimed in any one of claims 3 to 6, wherein the packet structure allocates the number of packet byte following the header in suit with the size of a corresponding learning content.

8. The Internet learning system as claimed in any one of claims 3 to 7, wherein some or all the header data having the same code in the packets for a database are provided to the learning progress server (7) in batch.

9. The Internet learning system as claimed in claim 1 or 2, wherein the header data related to the learning contents are induced on the learning content of each of the conceptual contents database (8-1) and the problem explanation file database (8-3), and the header data are connected to related learning dictionary database (8-4) or conceptual contents database (8-1), whereby if the learner selects the header data, a corresponding database is provided to the learner so that the learner can start learning immediately.

10. The Internet learning system as claimed in claim 1 or 2, wherein if automatic scoring as an objective problem and an yes or no problem is possible when the problems are scored the problems using the test scoring program (7-4), the problems are automatically scored, and if the problems are subjective problems for which automatic scoring is difficult, the learner or the learning assistant scores the problems and then inputs the scoring result, in a state where the basis of scoring of corresponding problems is stored at the learning data server (8).

11. The Internet learning system as claimed in claim 1 or 2, wherein the conceptual contents database (8-1) includes two or more different description types of the concepts for a conceptual content.

12. The Internet learning system as claimed in claim 1 or 2, wherein the problems related to each conceptual content of the problem database (8-2) has three to ten steps on the basis of the degree of difficulty.

13. The Internet learning system as claimed in claim 1 or 2, wherein a learning method inducing function is added to the learning plan configuration program (7-1).

14. The Internet learning system as claimed in claim 1 or 2, wherein the learning contents of the conceptual contents database (8-1) and the problem explanation file database (8-3) include sound such as voice, etc. and moving elements.

15. A learning method using an Internet learning system, comprising the steps of:

allowing a learner to enter a corresponding Internet learning site and then to access a learning

system;

allowing the learner to input learning conditions such as a learning range, etc.;

allowing a learning information management program (6-1) to analyze information related to learning such as the learner's learning history, a learning ability, etc. that are received from a learning
5 information database (6-2) and then to present an adequate learning progress sequence to the learner;

extracting/configuring necessary problems from a problem database (8-2) through a problem
configuration program (7-3) and then presenting the configured problems to the learner for a test;

allowing a learning plan configuration program (7-1) to manage the learning progress sequence in
which some steps or previous steps or each step among a step of scoring the problems tested by the
10 learner through a test scoring program (7-4) are overlapped, and the learning contents; and

storing learning-related information generated in each of the steps in the learning information
database (6-2).

16. The learning method as claimed in claim 15, further comprising the step of before the learner
studies the problems, extracting/configuring necessary conceptual contents from a conceptual contents
15 database (8-1) through a conceptual contents configuration program (7-2) and then presenting the
configured conceptual contents to the learner, etc., and/or the step of after the step of scoring the tested
problems, extracting/configuring necessary problem explanation files from a problem explanation file
database (8-3) through a problem explanation file configuration program (7-5) and then presenting the
configured files to the learner, etc. or simulate corresponding conceptual content.

20 17. The learning method as claimed in claim 15 or 16, wherein in a configuration of problems for
a text that will be performed again in connection with a learning range after the learner tests the problems
and then learned the problems, regarding hit problems in a just-before test, it is a principle that problems
whose degrees of difficulty are increased among problems related to the same conceptual content are set
again,

25 wherein the number of the problems to be set is gradually reduced or same, and if the learner
reaches a target learning level by hitting the problems of the final degree of difficulty that is selected by the
learner, etc. through repeated review, the problems are excluded from learning subjects, and

wherein regarding the wrong problems in the just-before test, problems are again set and the
number of the set problems is gradually increased or same, thus providing a change that the learner can
30 repeat learning on unknown problems.

18. The Internet learning system as claimed in claim 1 or 2, wherein some or all of the system
operating server system (3), the learning information management server system (6), the learning progress
server (7) and the learning data server (8) are integrated and managed by a single learning server (9).

19. The Internet learning system as claimed in claim 1 or 2, wherein some or all of the system

operating server system 3, the learning information management server system (6), the learning progress server (7) and the learning data server (8) are integrated and are then stored at a storage medium that can be utilized by the learner or a helper.